

MPC 42"W Series

42" Full HD Multimedia Panel PC

Quick Reference Guide



1st Ed – 3 May 2011

1. Getting Started

1.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x MPC 42"W Series Panel PC
- 1 x DVD-ROM contains the followings:
 - User's Manual (this QRG in PDF file)
 - Chipset drivers and utilities
 - Gigabit driver and utilities
 - Audio drivers and utilities
 - Video Driver and utilities
- 1 x Packing set includes the followings:
 - 4 x M6 screws



If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

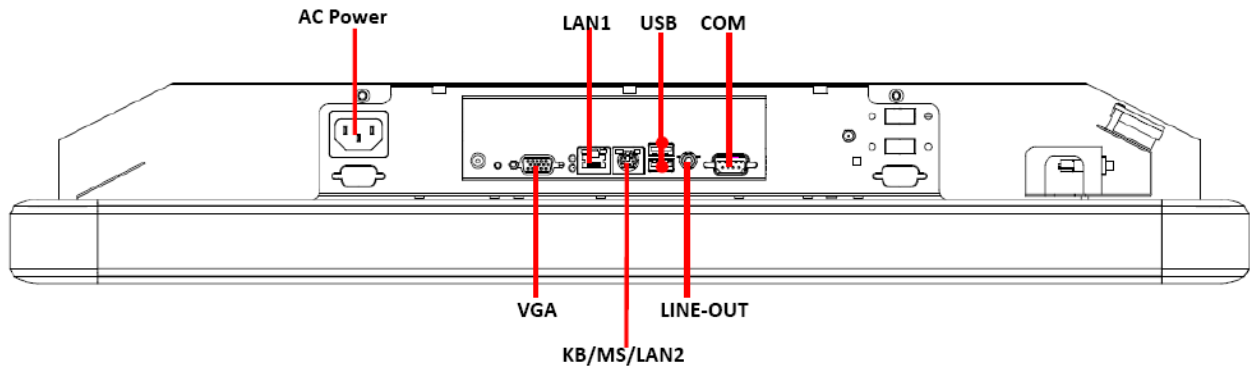
Panel		
LCD size	42", 16:9	
Resolution	FHD, 16.7M	
Pixel pitch	0.4845mm(H) x 0.4845mm(V)	
Luminance	450 cd/m ²	
Contrast ratio	4000	
Viewing angle	89(U), 89(D), 89(L), 89(R)	
Response time	6.5 ms	
Backlight	10 x CCFL	
System		
Board	MPC-42W5 (EBM-PNV)	MPC-42WA2 (EMX-780E)
CPU	Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU	AMD AM2/AM2+ Socket Support Athlon X2/Quad-Core CPU
BIOS	AMI 8 Mbit Flash BIOS	AMI 2MB SPI BIOS
System Chipset	Intel® ICH8M Chipset (2.4 W)	AMD RS780E(13W) + SB710(4.5W) Chipset
I/O Chip	Winbond W83627DHG-P	FINTEK F71863G
System Memory	Onboard 1 GB up to 2GB & One 200-pin DDR3 SODIMM supports up to 4 GB DDR3 800 SDRAM	Two 200-pin DDR2 SODIMM supports up to 4 GB DDR2 667/800 SDRAM
SSD	One CF socket supports Type I / II Compact Flash Card	
Hard Driver Bay	Optional One 2.5"HDD or SSD	
WiFi	Optional Mini PCIe WiFi 802.11b/g/n	
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step	
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats	
Expansion	2 x Mini PCIe	1 PCIe x 16, 1 Mini PCI
Rear I/O		
Serial Port	1 x RS-232/422/485 (selected by jumper)	2 x SATA, 4 x RS-232(COM1 & 2 on Edge, COM3 & 4, 10-pin 2.0 pitch header)
Ethernet	1 x RJ-45	2 x RJ-45
VGA	1 x DB-15	
Audio port	Line out	
USB	2 x USB 2.0	4 x USB 2.0

MPC 42”W Series

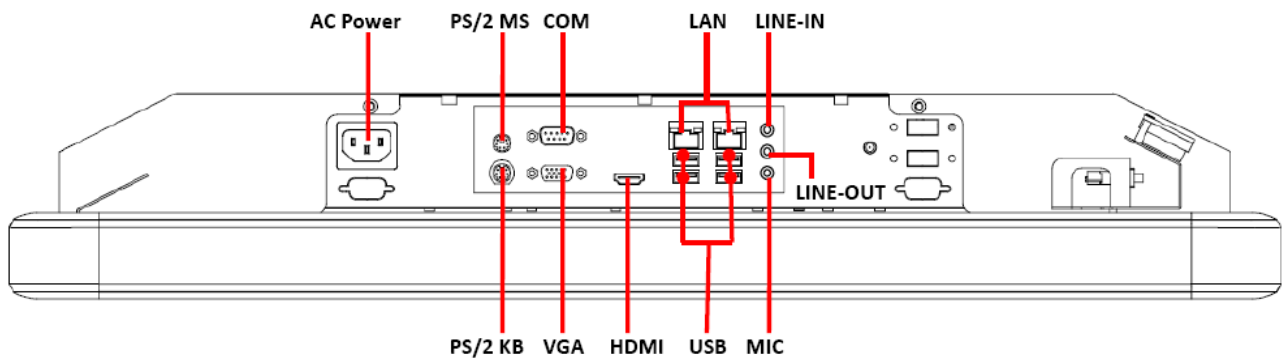
Speaker	2 x 2W	2 x 5W
Mouse & K/B	1 x PS/2 KB & MS	1 x PS/2 KB, 1 x PS/2 MS
Display		
Chipset	Intel ICH8-M (2.4W)	AMD RS780E Integrated ATI Radeon HD 3200 graphics
Display Memory	Intel DVMT 3.0 supports up to 224MB frame buffer using system memory	IGP ATI Radeon HD3200
Resolution	CRT: up to 2048x1536@ 60 Hz	CRT Mode: 2560 x 1600@32bpp
Dual Display	CRT + LVDS with clone mode	CRT+HDMI, CRT+LVDS
LVDS	Dual 18/24-bit LVDS	
Audio		
AC97 Codec	Realtek ALC888 supports 5.1-CH Audio	Realtek ALC888 supports 5.1-CH Audio with 5W AMP
Audio Interface	Mic-in, Line-in, Line-out	
Ethernet		
LAN Chip	Intel® 82574L Gigabit LAN (optional dual 82574L Gigabit LAN)	Dual RealTek RTL8111D Gigabit LAN
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible	10/100/1000 Base-Tx Fast Ethernet compatible
Mechanical environment		
System Fan	n/a	2x System Fan, 1 x CPU Cooler with Fan
Color	Front & Rear Black; Front Champagne & Rear Black	Front & Rear panel Black
Mounting	Wall/Stand/VESA 400 mm x 200 mm	
Power Input	AC 110~220V input	
Power Output	24 Vdc /10A (240W)	24 Vdc / 6.25A , +3.3V / 14A, +5V / 16A, +12V / 14A, +5VSB / 2.0A
ACPI	n/a	
Power Type	AT/ATX	
Operating Temp.	32 to 104°F (0 to 40°C)	
Storage Temp.	-4 to 167°F (-20 to 75°C)	
Operating Humidity	5%~90% relative humidity, non-condensing	
Dimensions	1057 x 650 x 105.1mm	
Weight	21.5 Kgs	

1.4 System Overview

1.4.1 I/O View (MPC-42W5)



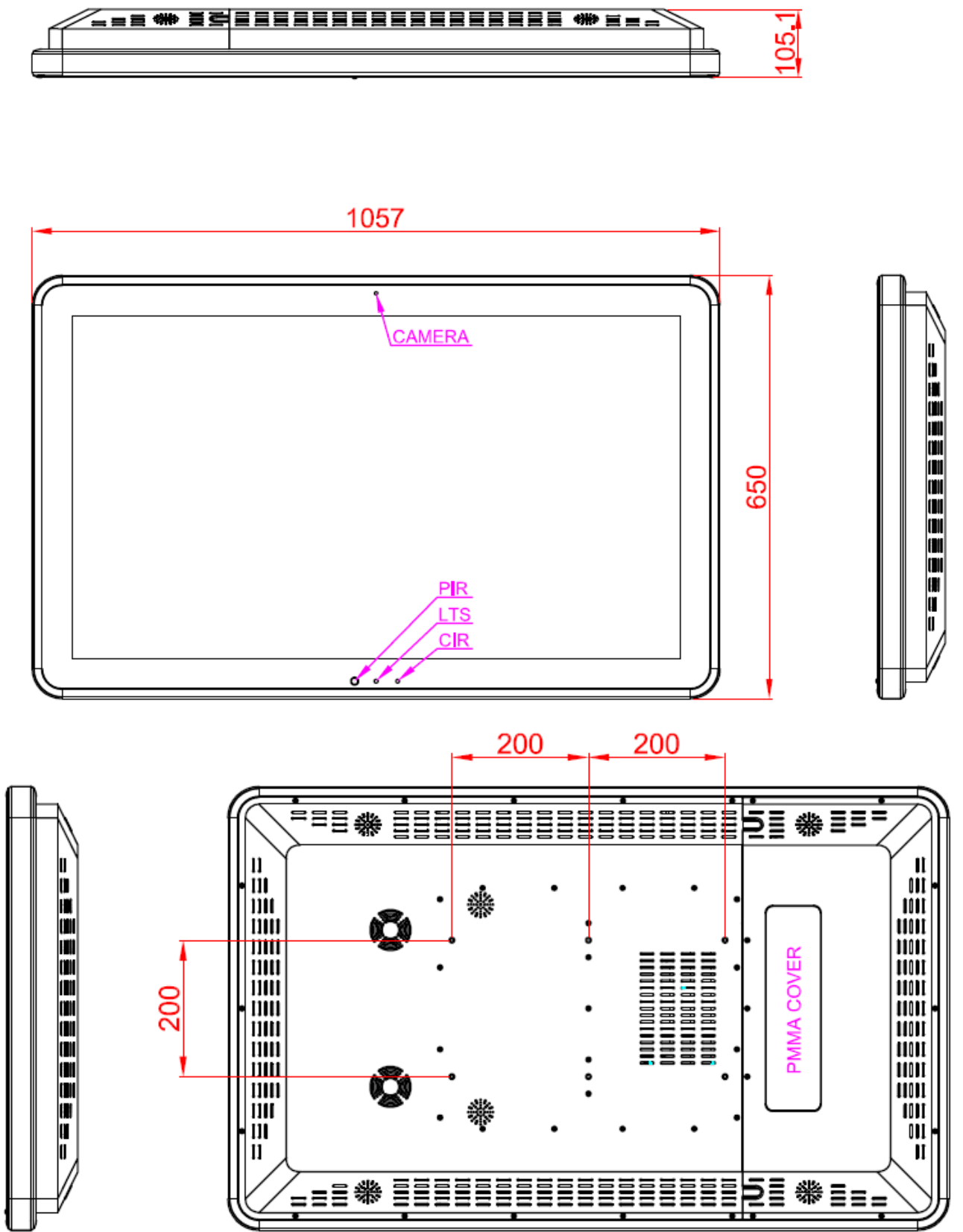
1.4.2 I/O View (MPC-42WA2)



Connectors

Label	Function	Note
AC Power	Power-in connector	
COM	Serial port	DB-9 male connector
KB/MS	Keyboard-Mouse connector	
LINE-IN	Line-in audio jack	
LINE-OUT	Line-out audio jack	
MIC	Microphone	
USB	USB connector	Dock USB
LAN1	RJ-45 Ethernet connector 1	
PS2	RJ-45 Ethernet connector 2 & PS2 co-lay	
SPEAKER	Audio Connector	
VGA	VGA connector	DB-15 female connector

1.5 System Dimensions



Note: The Web Camera module and intelligent module(PIR/CIR/LTS) are optional device.

(Unit: mm)

2. Hardware Configuration



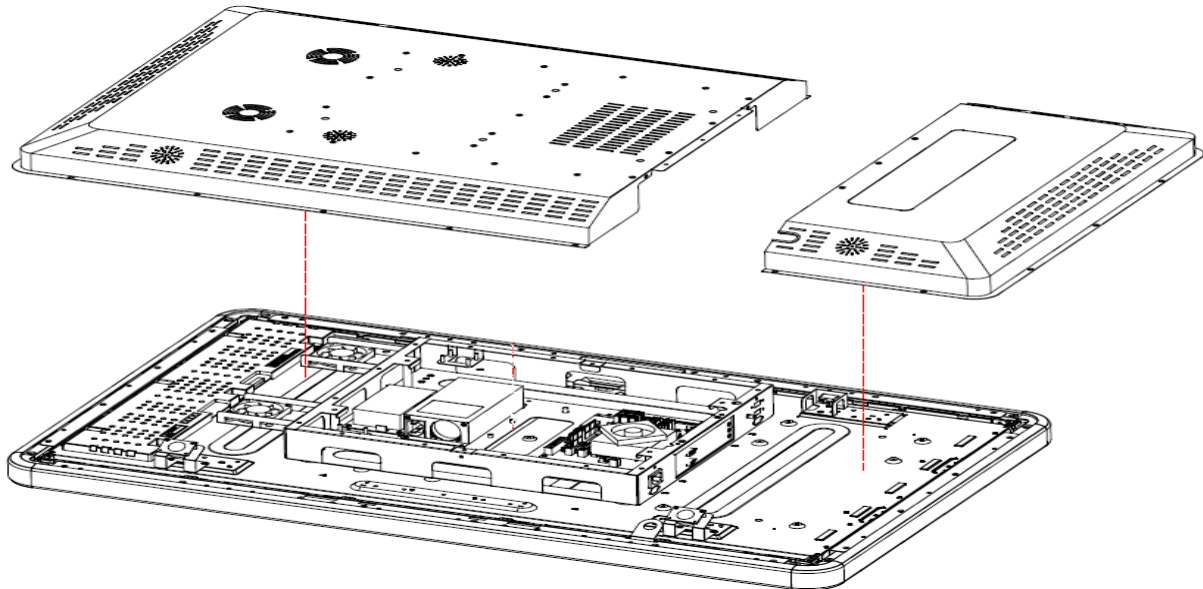
Note: If you need more information, please visit our website:

<http://www.avalue.com.tw>

2.1 Installing HDD

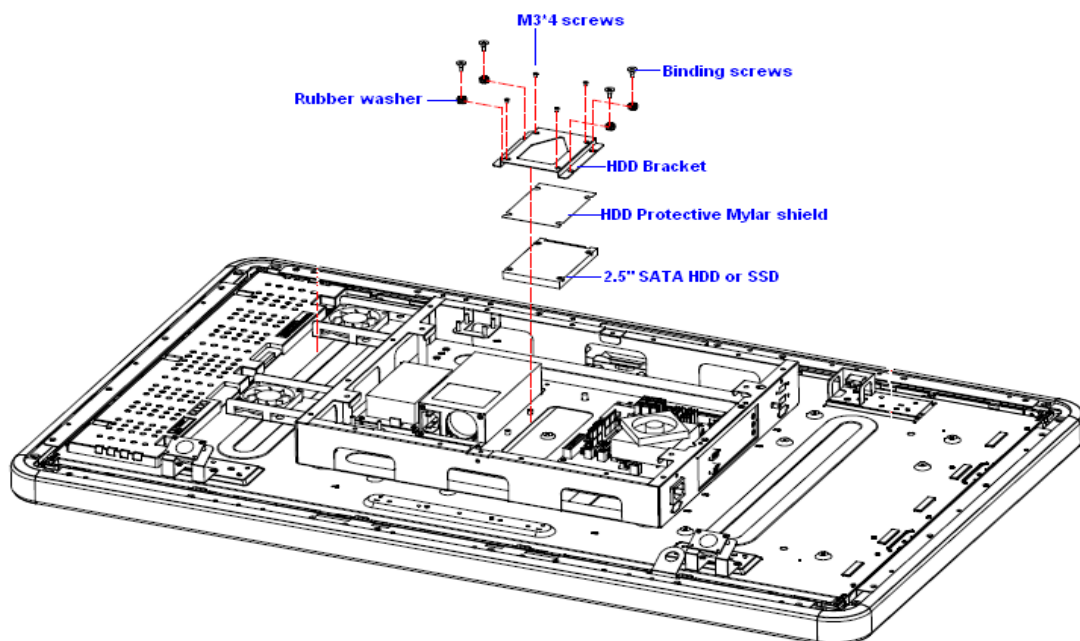
Step 1:

Remove the back of your MPC-42W housing (main cover & Side lid protection for I/O)



Step 2:

Install your HDD into the HDD bracket by means of four M3*4 screws. Before that; insert the Protective Mylar film between the HDD and the bracket and make sure it is properly installed.



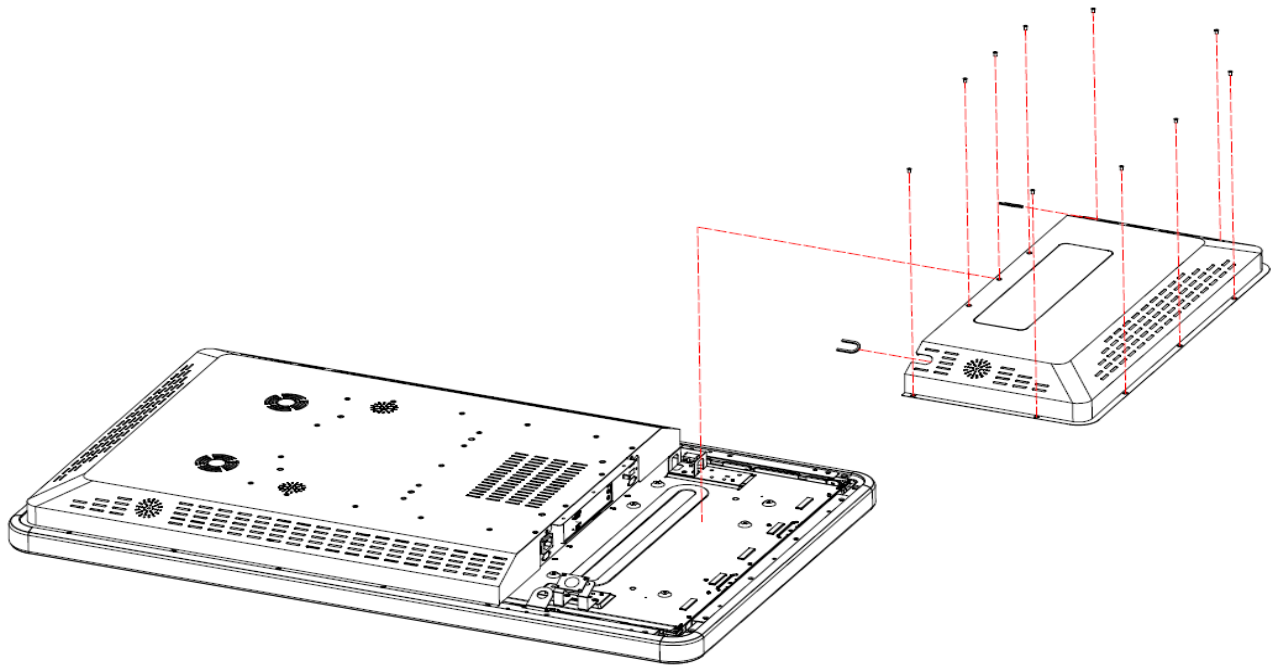
Step 3:

Install the HDD bracket (HDD already attached) in your system by means of four binding screws (shown in above picture) to complete HDD installation.

2.2 Cable Management

Step 1.

Remove the protection lid to disclose I/O & cables location for management.



Step 2.

Tidily secure electrical, data, and other cables by managing cable trough the hole made on the side of the I/O protection lid cover.

